

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF CHERRY HILL ROAD AT PROSPERITY DRIVE IN MONTGOMERY COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PEOPLE FOR THIS PROJECT ARE AS FOLLOWS:

MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: (301) 513-7300  
MR. DENNIS McMAHAN, ASSISTANT DISTRICT ENGINEER-CONSTRUCTION  
PHONE: (301) 513-7336  
MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
PHONE: (301) 513-7300  
MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER-UTILITY  
PHONE: (301) 513-7300  
MR. RICHARD L. DAFF, Sr., CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. BOBBY GONZALES, TRAFFIC ENGINEER MCDPWT  
PHONE: (240) 777-8761  
MR. MIKE KINNEY, MCDPWT (FOR SURVEILLANCE CAMERA)  
PHONE: (240) 777-8760

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL:

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	EIGHT PHASE FULLY ACTUATED SOLID STATE DIGITAL CONTROLLER WITH L.A.U., L.A.U PANEL AND HARNESSES HOUSED IN A NEMA SIZE '6' BASE MOUNTED CABINET	EA	1
973023	FLAT SHEET ALUMINUM SIGNS, (BLUE OR GREEN) R10-12 (36" x 42") D3-2 (VAR. X 16")	SF EA EA	40.8 1 3

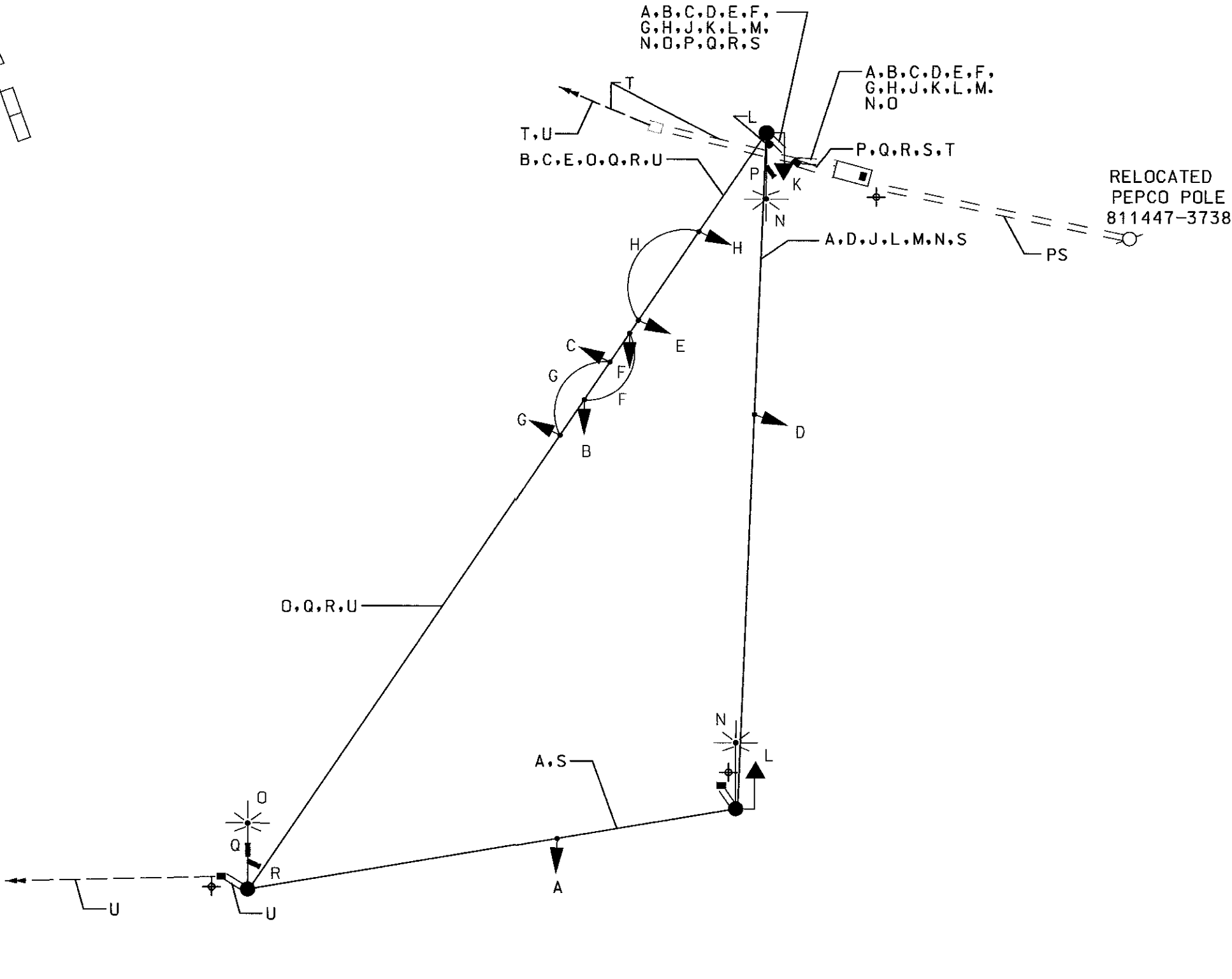
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
120500	MAINTENANCE OF TRAFFIC	LS	1
203030	TEST PIT EXCAVATION	CY	4
585624	24" HEAT APPL. WHT. PERM. PREF. THER. PVT. MARK.	LF	140
585620	12" HEAT APPL. WHT. PERM. PREF. THER. PVT. MARK.	LF	375
800000	2" SCHED. 80 PVC CONDUIT - TRENCHED	LF	50
800000	REMOVE AND DISPOSE EXISTING EQUIPMENT	LS	1
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	16
801607	INSTALL SHEET ALUMINUM SIGN	SF	41
805135	4" SCHED. 80 PVC CONDUIT - TRENCHED	LF	18
805140	3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	21
811003	HANDHOLE	EA	3
816001	VIDEO DETECTION CAMERA	EA	3
816010	PRE-MANUFACTURED CABLE TO CAMERA TO CONTROLLER (250' LENGTH CABLE)	EA	3
818009	14" x 32' STRAIN POLE (2 PLY)	EA	3
831010	250 WATT HPSV LUMINAIRE W/PHOTOCELL	EA	3
832020	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	375
837001	GROUND ROD	EA	4
860263	12" PEDESTRIAN SIGNAL HEAD SECTION- POLE MOUNT	EA	4
860272	12" VEHICULAR SIGNAL HEAD SECTION	EA	33
866103	15' LIGHTING ARM FOR SIGNAL STRUCTURE	EA	3
866105	2-COND., NO. 14 AWG ELECT. CABLE	LF	510
866106	3-COND., NO. 14 AWG ELECT. CABLE	LF	340
866107	5-COND., NO. 14 AWG ELECT. CABLE	LF	900
866108	7-COND., NO. 14 AWG ELECT. CABLE	LF	980
866116	2 COND., NO. 12 AWG TRAY CABLE	LF	470
869102	STEEL SPAN WIRE 3/8 INCH DIAMETER	LF	480
871202	INSTALL CONTROLLER AND CABINET - BASE MT.	EA	1

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



KEY

A } B } C } D } E }	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
F } G } H }	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
J } K }	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
L } M }	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
N } O }	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
P } Q } R }	VIDEO DETECTION CABLE (500 FT. LEAD IN)
S }	1 CONDUCTOR (NO. 6 WAG) STRANDED COPPER GROUND WIRE
T }	50 PAIR JELLYFILLED UNDERGROUND INTERCONNECT CABLE.
U }	5 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) FOR H.I.B.
PS	POWER SERVICE UNDERGROUND 3 WIRE 1-CONDUCTOR NO. 4 AWG.
+	GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
PHASE 2 AND 5	R	R	R	R	R	G/G	G/G	G	DW	DW	DW	DW	←
2 AND 5 CHANGE	R	R	R	R	R	Y/Y	Y/Y	Y	DW	DW	DW	DW	↓
PHASE 2 AND 6	R	R	R	G	G	G	G	G	DW	DW	DW	DW	←
2 AND 6 CHANGE	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	→
PHASE 3	G	G	G	R	R	R	R	R	DW	DW	DW	DW	↑
3 CHANGE	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	↑
PHASE 3 ALT	G	G	G	R	R	R	R	R	WK	WK	DW	DW	↑
PED CLEARANCE	G	G	G	R	R	R	R	R	FLDW	FLDW	DW	DW	↑
PHASE 3 CHANGE	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	↑
FLASHING OPERATION	FL /R	FL /R	FL /R	FL /Y	FL /Y	FL /Y	FL /Y	FL /Y	DARK	DARK	DARK	DARK	←

PHASE 3E



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

CHERRY HILL ROAD AT PROSPERITY DRIVE



SABRA, WANG & ASSOCIATES, INC.  
1506 JOH AVENUE  
SUITE 180  
BALTIMORE, MD 21227  
WWW.SABRA-WANG.COM

DRAWN BY: JAMES ALLEN JR.  
CHECKED BY: NTS  
SCALE: NTS  
DATE: APRIL, 2002

F.A.P. NO.  
S.H.A. NO.  
COUNTY:  
LOG MILE:

MOB365170  
MONTGOMERY

TS NO.  
4116C  
T.J.M.S. NO.  
F142

SHEET NO.  
OF